FBIS Registry

A DP - SR

FBIS-2455/88
5 February 1988

MEMORANDUM FOR: STAT
                   Switching Systems Analyst

                                         STAT

FROM: STAT
                   Communications Segment Manager
                   Advanced Development Division, FBIS

SUBJECT: Affect of ☐ Software Changes to AUTODIN Processing   STAT

1. In reference to phone conversations with you this past month, this memorandum is written to address ☐ changes to the Automated FBIS   STAT
System (AFS) current AUTODIN processing, and whether the system should
require re-certification with ☐ The following paragraphs will   STAT
identify the changes to the various functions of the software, and the
three tests in the CAT III test procedure that are affected by the ☐   STAT
addition.

2. The software functions that have a direct impact on AUTODIN
processing are Validation, AUTODIN Driver, and Operator Interface. The
changes to these functions result from the fact that the ☐   STAT
Communications Link requires messages in ACP 127 format, and the Operator
Interface requires status and control for the added link, the same as
that provided for the other communications links.

3. The current design has all outgoing messages originate in
JANAP 128 format only, with incoming validation capable of processing
either JANAP 128 or ACP 127; however, Incoming Validation does not do
format conversion. With the addition of ☐ messages will be   STAT
transmitted in either format depending on the communications link used.
Incoming messages may have to be switched between links, requiring format
conversion between ACP and JANAP.

4. Each validation process will be modified to process either ACP
or JANAP formatted messages. To provide format conversion each message
will be split into two files, one containing the routing indicators and
the other the remainder of the message. All other validation functions
remain the same.

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5. The link drivers will construct the transmission version of an outgoing message from the two message files created by validation. For the AUTODIN driver, this means that format line 2, that was originally built by validation, will now be constructed by the driver using the routing indicator file. The driver will then concatenate format line 2 with the remainder of the message and do the actual transmission. Link selection, precedence processing, and bust for flash will be processed the same as the current software.

6. The processing for CARP will not change with the addition of ⬜   STAT

7. The operator interface will have link control commands added for ⬜ that will be separate from all other links. The operator will also   STAT
have the ability to move messages between links using queue commands.   STAT
The move commands will be expanded to include ⬜ as a destination or source for these commands.

8. In view of the changes mentioned above, we can demonstrate proper operation of the system with ⬜ added, using our link simulator   STAT
in Plainfield, New Jersey before final installation in Reston. As part of the Verification test, you or your representative are invited to witness the tests.

9. ⬜ support to our modernization program is greatly   STAT
appreciated and has helped us significantly.

10. I will be the point of contact on this subject and can be reached at ⬜   STAT
                                                                          STAT

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